



A finished unit every 27 seconds

This is how a gearbox is made

- / **SEAT Componentes manufactures 18 million parts every year to assemble more than 660,000 gearboxes**
- / **15,000 tonnes of aluminium are smelted every year, enough to make 220 commercial airliners**
- / **Gears are changed over 500,000 times during the service life of a gearbox**

Martorell, 03/03/2017.- The SEAT Componentes plant in El Prat de Llobregat, Barcelona, has been allocated the Volkswagen Group's new MQ281 gearbox, a part that will be made there for the entire world. For the first time, a carmaker has installed POV cameras at different stages of the manufacturing process to show everything involved in making them in an accelerated video lasting 60 seconds.

- **A gearbox every 27 seconds:** Every 27 seconds, a new unit leaves the SEAT Componentes plant, which ranks first in manufacturing time for the Volkswagen Group's five-speed manual gearboxes; more specifically, one hour and 41 minutes in total.

- **More than 13.5 million gearboxes:** SEAT Componentes has manufactured over 13.5 million of the MQ200 model gearboxes. These units are used in 29 Volkswagen Group car models and are exported worldwide. In 2016 a total of 661,277 units were manufactured, a figure that is expected to slightly increase this year.

- **Smelting at 700°C:** Manufacturing the gearboxes requires smelting 15,000 tonnes of aluminium every year, the amount used to make 220 commercial airliners. The ingots are loaded into kilns at nearly 700°C for smelting. Several injection moulding machines solidify the molten aluminium into a rough part in 20 seconds.

- **18 million parts every year:** Each gearbox is made of 174 parts. Annual in-house production at SEAT Componentes totals more than 18 million parts, including shafts, gearwheels and timing mechanisms.

- **250,000 kilometre lifespan:** The parts that are manufactured in-house undergo heat treatment to ensure their durability, and can remain up to 14 hours at a temperature of 900°C. This process enables the service life of a gearbox to be multiplied by 5,000, which is estimated to be an average of 250,000 kilometres. During its service life, 500,000 gear changes on average are performed.



-A process that recycles: At the SEAT Componentes plant, 95% of the aluminium used gets recycled, as well as the majority of the oils and other consumables used in the manufacturing process.

- Machinery used: More than 500 machines and robots are involved in the manufacturing process of a gearbox.

SEAT is the only company that designs, develops, manufactures and markets cars in Spain. A member of the Volkswagen Group, the multinational has its headquarters in Martorell (Barcelona), exporting more than 80% of its vehicles, and is present in over 75 countries.

SEAT Group employs more than 14,000 professionals at its three production centres – Barcelona, El Prat de Llobregat and Martorell, where it manufactures the highly successful Ibiza and Leon. Additionally, the company produces the Ateca and the Toledo in the Czech Republic, the Alhambra in Portugal and the Mii in Slovakia.

The multinational has a Technical Centre, which operates as a knowledge hub that brings together 1,000 engineers who are focussed on developing innovation for Spain's largest industrial investor in R&D. SEAT already features the latest connectivity technology in its vehicle range and is currently engaged in the company's global digitisation process to promote the mobility of the future.

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